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REPORT

NMTBA
The Association For Manufacturing Technology

Direct Dial: (703) 827-5260

STATISTICAL

No. 111-91 October 30, 1991

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY – AUGUST 1991

(Values in Millions of U.S. Dollars)

	Aug. 1991	July 1991	Average May-July	Year to Date '91	Year to Date '90	% Change YTD '90-'91
METAL CUTTING MACHINE TOOLS						
Exports	$ 46.3	$ 46.6	$ 53.8	$ 409.4	$ 401.6	1.9%
Imports	$130.4	$118.5	$138.7	$1,107.9	$1,226.6	(9.7%)
Balance	($ 84.1)	($ 71.9)	($ 84.9)	($ 698.5)	($ 825.0)	(15.3%)
METAL FORMING MACHINE TOOLS						
Exports	$ 44.5	$ 43.9	$ 45.8	$ 323.4	$ 309.9	4.4%
Imports	$ 34.3	$ 31.9	$ 35.7	$ 360.3	$ 334.8	7.6%
Balance	$ 10.2	$ 12.0	$ 10.1	($ 36.9)	($ 24.9)	48.2%
MACHINE TOOL TOTAL						
Exports	$ 90.8	$ 90.5	$ 99.6	$ 732.8	$ 711.6	3.0%
Imports	$164.6	$150.4	$174.4	$1,468.2	$1,561.4	(6.0%)
Balance	($ 73.8)	($ 59.9)	($ 74.8)	($ 735.4)	($ 849.8)	(13.5%)
NUMERICALLY CONTROLLED MACHINE TOOLS						
Exports	$ 14.6	$ 20.0	$ 27.1	$ 210.2	$ 231.0	(9.0%)
Imports	$ 94.0	$ 80.8	$102.4	$ 800.1	$ 833.4	(4.0%)
Balance	($ 79.4)	($ 60.8)	($ 75.3)	($ 589.9)	($ 602.4)	(2.1%)
OTHER MANUFACTURING TECHNOLOGY						
Exports	$124.7	$150.0	$147.4	$1,108.6	$1,208.0	(8.2%)
Imports	$150.7	$177.7	$170.5	$1,353.2	$1,325.1	2.1%
Balance	($ 26.0)	($ 27.7)	($ 23.1)	($ 244.6)	($ 117.1)	108.9%

Note: Numerically controlled machine tools is a subgroup of the machine tool total. ( ) denotes negative. NM = not meaningful. Individual items may not add up to totals due to rounding.

• U.S. machine tool exports totalled $90.8 million in August, marking the first time ever that exports exceeded $90 million for five consecutive months.

• Year-to-date exports are $732.8 million, up 3% over last year when exports reached a record high. This year's year-to-date total is the second highest January-August total ever, behind $748.8 million in 1981.

• Imports in August rebounded from three straight monthly declines to $164.6 million, for a year-to-date total ($1.5 billion) 6% lower than last year.

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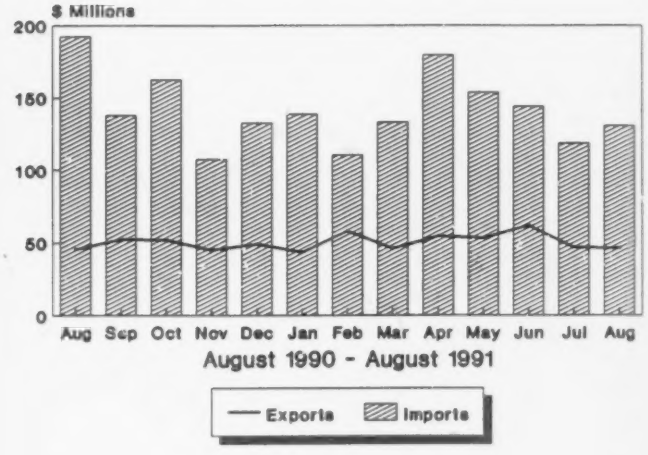
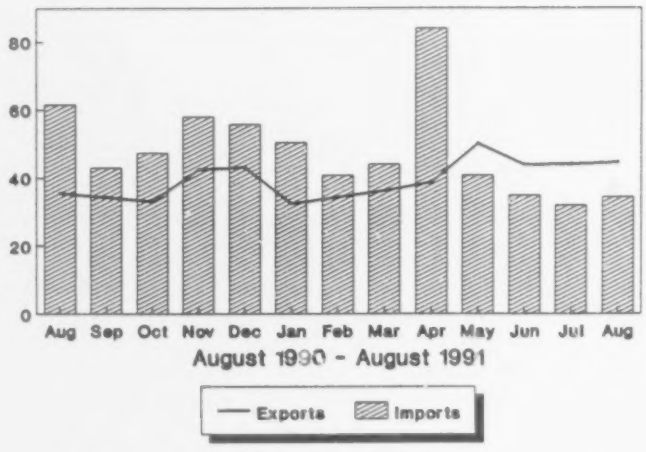
U.S. MONTHLY TRADE IN MACHINE TOOLS

METAL CUTTING



METAL FORMING



METAL CUTTING MACHINE TOOLS

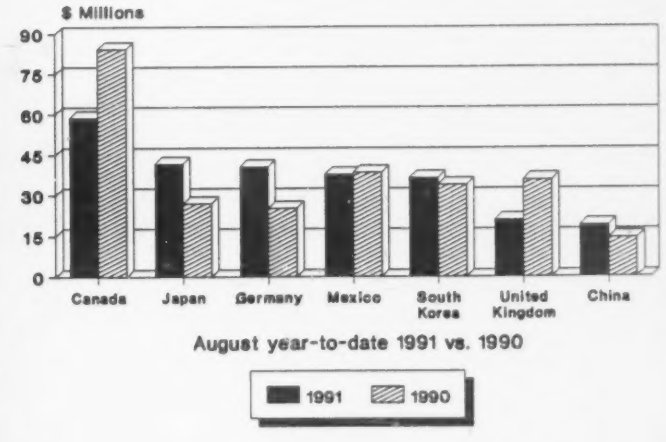
Exports

• Exports of metal cutting machines in August fell fractionally from July to $46.3 million. The monthly average so far in 1991: $51.2 million. Year-to-date exports are $409.4 million, up 2% over last year.

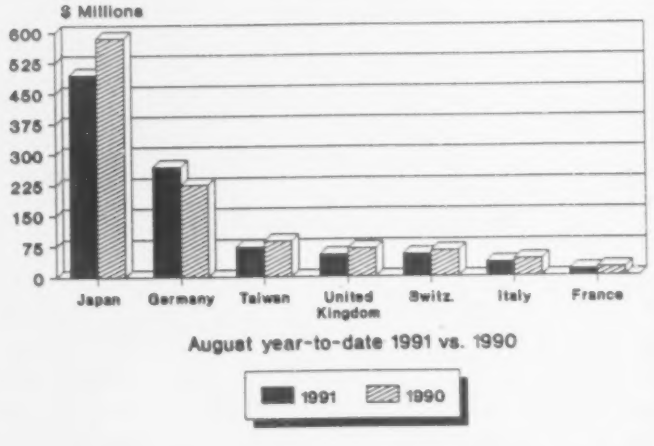
• Exports so far in 1991 of machining centers are down 29% in unit terms and down 26% in value terms; exports of NC lathes are down 33% in unit terms and down 39% in value terms.

• South Korea was the biggest metal cutting export market in August at $8.1 million, followed by Canada ($7.3 million). South Korea's total included 19 used or rebuilt machines valued at $5.1 million. Canada's total included $2.2 million in used or rebuilt machines.

LEADING U.S. EXPORT MARKETS
METAL CUTTING MACHINES



LEADING U.S. IMPORT SOURCES
METAL CUTTING MACHINES



Imports

• Imports of metal cutting machines in August of $130.4 million were 10% higher than July's $118.5 million but lower than the 1991 monthly average of $138.5 million.

• Year-to-date imports from Japan are $495.6 million, down 15% from last year; imports from Taiwan ($73.4 million) and the United Kingdom ($54.4 million) are down 15% and 21%, respectively. Imports from Germany are up 20% to $268.8 million.

• Year-to-date imports of drilling machines are down 14% in unit terms (to 804 from 932) but up 14% in value terms (to $31.4 million from $27.6 million.) Likewise, imports of milling machines are down in unit terms (2,506 vs. 3,444) but up in value terms ($53.8 million vs. $50.3 million) this year compared to last year.

METAL FORMING MACHINE TOOLS

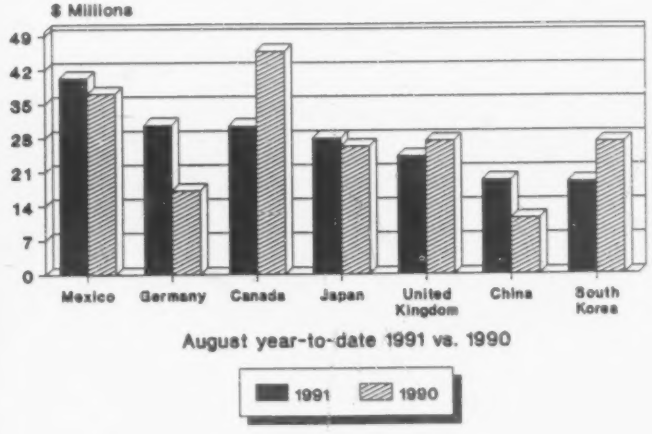
Exports

• Exports of metal forming machines rose slightly from July to August to $44.5 million. Exports of metal forming machines have now exceeded imports for four consecutive months.

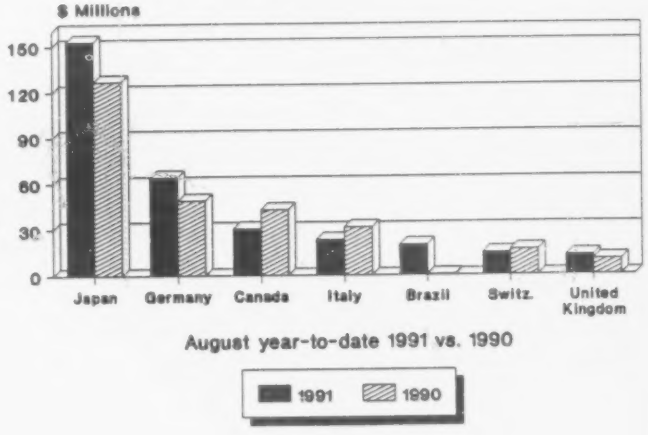
• The United Kingdom ($6.8 million) and Australia ($6.1 million) were the top two export markets in August. The total for the U.K. included $3.9 million in non-NC bending and forming machines; Australia's total included $6.0 million in metal forming machines "not elsewhere classified".

• Exports of bending and forming machines in 1991 through August are down 6% in unit terms but up 14% in value terms. Exports of presses are down 16% in unit terms and down 18% in value terms.

LEADING U.S. EXPORT MARKETS
METAL FORMING MACHINES



LEADING U.S. IMPORT SOURCES
METAL FORMING MACHINES



Imports

• Imports of metal forming machines in August were $34.3 million, up from $31.9 million in July. Year-to-date imports are up 8%, largely on the strength of the $83.9 million worth of machines imported in April.

• Metal forming imports from Germany in August ($9.7 million) actually exceeded imports from Japan ($9.6 million). Japan remains by far the biggest year-to-date supplier at $153.0 million, followed by Germany ($64.1 million), Canada ($30.7 million) and Italy ($23.1 million).

OTHER MANUFACTURING TECHNOLOGY

Exports

• Exports of other manufacturing technology in August fell 17% from July to $124.7 million. Exports of machine tool parts and accessories fell from $60.2 million in July to $49.5 million in August; year-to-date exports of parts and accessories are down 6% from last year to $444.8 million.

• Year-to-date exports of extruders were 859 units worth $37.5 million last year. This year the comparable figures are 603 units and $38.2 million. Exports of machines using laser, light or photon beams for working any material fell to 409 machines worth $24.9 million this year from 628 machines worth $31.8 million last year.

Imports

• Imports of other manufacturing technology in August fell to $150.7 million, down from an average of $170.5 million in May through July. The year-to-date total ($1.4 billion) is 2% higher than last year.

• Year-to-date imports of industrial robots for lifting, handling, loading or unloading are $23.1 million, down from $26.2 million last year. Imports of laser, light or photon beam process machines are $36.8 million, up from $34.1 million last year.

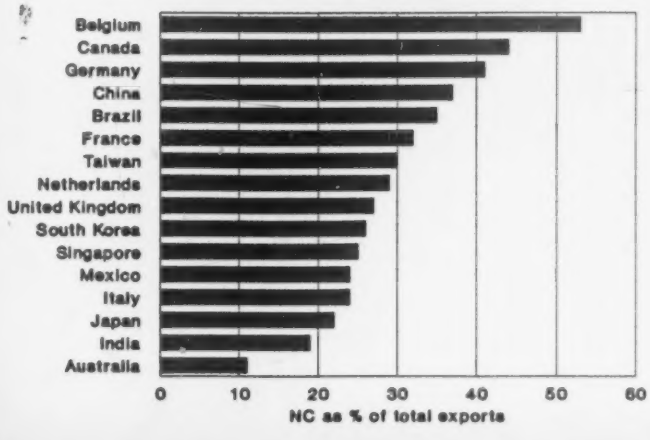
• Imports of numerical controls for controlling machine tools are $21.5 million so far this year. The comparable figure for 1990: $31.8 million.

MONTHLY FOCUS

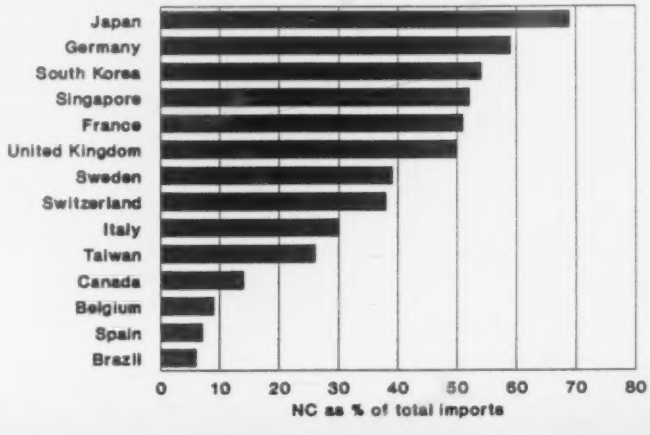
Numerically controlled machines account for $210.2 million, or 29%, of total U.S. machine tool exports in 1991 through August. NC machines account for a much higher percentage of imports -- 54%, or $800.1 million.

As the charts below show, countries differ significantly in terms of the percentage of total exports or imports accounted for by NC machines. NC machines, for example, account for 53% of U.S. machine tool exports to Belgium and 44% to Canada, but only 11% to Australia and 5% to Spain. On the import side, Japan -- by far the highest supplier of machine tools to the U.S. -- also has the highest NC percentage for their imports of any country at 69%, followed by Germany (59%) and South Korea (54%).

NC Machines as % of Total U.S. Machine Tool Exports, January-August 1991



NC Machines as % of Total U.S. Machine Tool Imports, January-August 1991



1991 EXPORTS

METAL CUTTING

COUNTRY	AUGUST	JULY	% CHANGE	AUG'91 YTD	AUG'90 YTD	% CHANGE
Canada	$7,309,729	$8,823,741	-17.2%	$58,792,982	$84,259,058	-30.2%
Japan	4,063,110	3,530,080	15.1%	41,650,712	26,989,066	54.3%
Germany	1,676,978	1,224,804	36.9%	40,605,077	25,227,164	61.0%
Mexico	4,275,460	4,445,568	-3.8%	37,877,572	38,403,252	-1.4%
South Korea	8,144,265	5,817,849	40.0%	36,549,746	33,989,259	7.5%
United Kingdom	3,618,118	1,752,795	106.4%	21,020,914	35,758,332	-41.2%
China	2,058,239	2,323,683	-11.4%	18,921,310	14,152,707	33.7%
USSR	302,247	1,054,809	-71.3%	17,926,246	3,707,174	383.6%
France	798,451	186,923	327.2%	11,338,934	6,251,067	81.4%
India	1,413,907	2,010,575	-29.7%	10,517,988	15,370,787	-31.6%
Taiwan	1,349,024	1,920,267	-29.7%	9,277,733	8,746,521	6.1%
Italy	971,615	573,903	69.3%	9,052,870	12,482,980	-27.5%
Brazil	305,278	1,870,476	-83.7%	8,718,130	10,464,635	-16.7%
Belgium	1,741,556	167,576	939.3%	8,150,901	16,463,910	-50.5%
Venezuela	923,881	983,069	-6.0%	8,142,762	4,702,024	73.2%
Singapore	1,443,241	488,286	195.6%	6,599,705	6,076,267	8.6%
Indonesia	151,679	3,161,417	-95.2%	4,607,570	166,252	2671.4%
Switzerland	334,347	375,402	-10.9%	4,213,862	4,505,898	-6.5%
Netherlands	397,599	244,790	62.4%	3,792,203	4,050,817	-6.4%
Australia	239,628	276,224	-13.2%	3,216,944	13,443,428	-76.1%
Malaysia	407,818	849,304	-52.0%	2,892,821	2,150,679	34.5%
Thailand	38,617	58,985	-34.5%	1,734,260	1,388,277	24.9%
Spain	60,904	163,989	-62.9%	1,234,122	4,460,242	-72.3%
Austria	32,320	16,109	100.6%	686,608	226,757	202.8%

METAL FORMING

COUNTRY	AUGUST	JULY	% CHANGE	AUG'91 YTD	AUG'90 YTD	% CHANGE
Mexico	$4,869,400	$6,051,875	-19.5%	$40,297,442	$37,132,190	8.5%
Germany	3,347,303	2,570,232	30.2%	30,674,570	17,110,225	79.3%
Canada	1,847,408	2,166,348	-14.7%	30,441,165	45,814,978	-33.6%
Japan	4,221,329	3,659,636	15.3%	27,920,516	26,140,536	6.8%
United Kingdom	6,750,405	2,905,793	132.3%	24,182,117	27,237,554	-11.2%
China	932,168	974,857	-4.4%	19,239,390	11,376,279	69.1%
South Korea	2,001,890	5,043,506	-60.3%	18,842,632	27,029,206	-30.3%
France	1,794,256	2,650,150	-32.3%	18,452,267	11,805,247	56.3%
Italy	3,428,352	1,223,156	180.3%	9,492,868	6,644,691	42.9%
Australia	6,137,935	695,217	782.9%	8,831,413	3,915,179	125.6%
Netherlands	504,943	1,546,303	-67.3%	8,238,046	5,714,784	44.2%
Thailand	826,111	1,244,039	-33.6%	7,179,025	3,607,644	99.0%
Taiwan	878,610	608,357	44.4%	6,144,196	10,169,553	-39.6%
Brazil	755,907	46,349	1530.9%	4,824,840	5,102,541	-5.4%
Singapore	200,557	970,730	-79.3%	4,420,592	4,279,494	3.3%
Spain	466,569	274,532	70.0%	4,102,940	4,639,932	-11.6%
Indonesia	278,806	18,800	1383.0%	3,735,305	4,339,474	-13.9%
Belgium	206,906	80,830	156.0%	2,091,550	2,311,019	-9.5%
Venezuela	45,616	203,132	-77.5%	1,573,580	1,027,995	53.1%
Switzerland	79,894	137,446	-41.9%	1,515,072	1,687,521	-10.2%
Malaysia	315,996	46,590	578.2%	1,176,120	4,037,771	-70.9%
India	52,586	30,055	75.0%	872,176	5,736,995	-84.8%
Austria	0	136,632	-100.0%	324,289	2,108,866	-84.6%
USSR	0	97,244	-100.0%	122,884	694,819	-82.3%

METAL CUTTING AND METAL FORMING

COUNTRY	AUGUST	JULY	% CHANGE	AUG'91 YTD	AUG'90 YTD	% CHANGE
Canada	$9,157,137	$10,990,089	-16.7%	$89,234,147	$130,074,036	-31.4%
Mexico	9,144,860	10,497,443	-12.9%	78,175,014	75,535,442	3.5%
Germany	5,024,281	3,795,036	32.4%	71,279,647	42,337,389	68.4%
Japan	8,284,439	7,189,716	15.2%	69,571,228	53,129,602	30.9%
South Korea	10,146,155	10,861,355	-6.6%	55,392,378	61,018,465	-9.2%
United Kingdom	10,368,523	4,658,588	122.6%	45,203,031	62,995,886	-28.2%
China	2,990,407	3,298,540	-9.3%	38,160,700	25,528,986	49.5%
France	2,592,707	2,837,073	-8.6%	29,791,201	18,056,314	65.0%
Italy	4,399,967	1,797,059	144.8%	18,545,738	19,127,671	-3.0%
USSR	302,247	1,152,053	-73.8%	18,049,130	4,401,993	310.0%
Taiwan	2,227,634	2,528,624	-11.9%	15,421,929	18,916,074	-18.5%
Brazil	1,061,185	1,916,825	-44.6%	13,542,970	15,567,176	-13.0%
Australia	6,377,563	971,441	556.5%	12,048,357	17,358,607	-30.6%
Netherlands	902,542	1,791,093	-49.6%	12,030,249	9,765,601	23.2%
India	1,466,493	2,040,630	-28.1%	11,390,164	21,107,782	-46.0%
Singapore	1,643,798	1,459,016	12.7%	11,020,297	10,355,761	6.4%
Belgium	1,948,462	248,406	684.4%	10,242,451	18,774,929	-45.4%
Venezuela	969,497	1,186,201	-18.3%	9,716,342	5,730,019	69.6%
Thailand	864,728	1,303,024	-33.6%	8,913,285	4,995,921	78.4%
Indonesia	430,485	3,180,217	-86.5%	8,342,875	4,505,726	85.2%
Switzerland	414,241	512,848	-19.2%	5,728,934	6,193,419	-7.5%
Spain	527,473	438,521	20.3%	5,337,062	9,100,174	-41.4%
Malaysia	723,814	895,894	-19.2%	4,068,941	6,188,450	-34.2%
Austria	32,320	152,741	-78.8%	1,010,897	2,335,623	-56.7%

1991 IMPORTS

METAL CUTTING

COUNTRY	AUGUST	JULY	% CHANGE	AUG' 91 YTD	AUG' 90 YTD	% CHANGE
Japan	$72,903,362	$51,360,545	41.9%	$495,616,459	$585,436,854	-15.3%
Germany	19,345,911	19,446,328	-0.5%	268,788,354	224,717,982	19.6%
Taiwan	6,279,361	11,297,402	-44.4%	73,440,852	86,793,995	-15.4%
United Kingdom	4,339,499	6,173,669	-29.7%	54,406,353	69,066,497	-21.2%
Switzerland	6,019,912	9,609,206	-37.4%	54,052,803	62,417,990	-13.4%
Italy	7,354,873	3,734,233	97.0%	33,675,874	41,492,815	-18.8%
France	3,127,751	2,151,021	45.4%	15,184,195	20,004,136	-24.1%
Spain	1,778,576	1,170,722	51.9%	13,932,843	20,119,355	-30.7%
Sweden	83,831	626,357	-86.6%	13,040,706	11,237,172	16.0%
South Korea	1,735,234	2,165,159	-19.9%	12,890,954	13,689,072	-5.8%
Canada	641,759	2,225,693	-71.2%	12,095,014	15,214,274	-20.5%
Singapore	1,011,615	1,142,319	-11.4%	7,632,769	13,663,260	-44.1%
Brazil	831,574	1,271,352	-34.6%	6,247,381	9,495,423	-34.2%
Belgium	0	387,565	-100.0%	1,684,557	1,232,717	36.7%

METAL FORMING

COUNTRY	AUGUST	JULY	% CHANGE	AUG' 91 YTD	AUG' 90 YTD	% CHANGE
Japan	$9,610,513	$14,119,721	-31.9%	$152,960,238	$126,762,938	20.7%
Germany	9,684,056	5,414,485	78.9%	64,117,133	48,772,434	31.5%
Canada	3,350,481	2,736,139	22.5%	30,651,328	42,625,543	-28.1%
Italy	1,564,964	2,118,764	-26.1%	23,111,177	31,112,656	-25.7%
Brazil	0	43,982	-100.0%	19,740,871	200,000	9770.4%
Switzerland	2,075,389	1,918,276	8.2%	14,543,387	16,280,122	-10.7%
United Kingdom	987,774	574,713	71.9%	12,440,828	9,845,592	26.4%
Sweden	264,477	684,500	-61.4%	8,105,297	17,838,349	-54.6%
Belgium	1,781,756	351,297	407.2%	7,081,731	17,544,919	-59.6%
Taiwan	783,175	821,531	-4.7%	4,952,888	7,181,324	-31.0%
Spain	543,643	528,389	2.9%	2,605,045	3,079,239	-15.4%
France	90,797	152,134	-40.3%	1,345,186	2,818,007	-52.3%
South Korea	3,420	66,900	-94.9%	515,655	514,347	0.3%
Singapore	0	0	NA	300,254	70,200	327.7%

METAL CUTTING AND METAL FORMING

COUNTRY	AUGUST	JULY	% CHANGE	AUG' 91 YTD	AUG' 90 YTD	% CHANGE
Japan	$82,513,875	$65,480,266	26.0%	$648,576,697	$712,199,792	-8.9%
Germany	29,029,967	24,860,813	16.8%	332,905,487	273,490,416	21.7%
Taiwan	7,062,536	12,118,933	-41.7%	78,393,740	93,975,319	-16.6%
Switzerland	8,095,301	11,527,482	-29.8%	68,596,190	78,698,112	-12.8%
United Kingdom	5,327,273	6,748,382	-21.1%	66,847,181	78,912,089	-15.3%
Italy	8,919,837	5,852,997	52.4%	56,787,051	72,605,471	-21.8%
Canada	3,992,240	4,961,832	-19.5%	42,746,342	57,839,817	-26.1%
Brazil	831,574	1,315,334	-36.8%	25,988,252	9,695,423	168.0%
Sweden	348,308	1,310,857	-73.4%	21,146,003	29,075,521	-27.3%
Spain	2,322,219	1,699,111	36.7%	16,537,888	23,198,594	-28.7%
France	3,218,548	2,303,155	39.7%	16,529,381	22,822,143	-27.6%
South Korea	1,738,654	2,232,059	-22.1%	13,406,609	14,203,419	-5.6%
Belgium	1,781,756	738,862	141.1%	8,766,288	18,777,636	-53.3%
Singapore	1,011,615	1,142,319	NA	7,933,023	13,733,460	-42.2%

1991 U.S. EXPORTS BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1991		FEBRUARY 1991		MARCH 1991		APRIL 1991	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & rebuilt & under $2,500	5,350	$13,231,937	5,314	$9,384,660	5,918	$12,359,757	5,272	$15,333,596
Boring machines	8	572,189	8	2,689,884	7	490,980	10	781,577
Drilling machines	104	2,125,292	72	2,302,444	98	2,731,002	94	1,177,353
Gear cutting machines	14	7,378,919	23	3,441,470	16	3,898,627	22	6,720,535
Grinding machines	244	5,937,543	272	10,254,977	275	8,387,839	313	11,543,197
NC horizontal lathes	15	2,388,500	33	3,043,968	29	3,419,112	38	4,707,962
NC vertical lathes	1	161,310	2	341,835	6	371,174	1	89,700
Non-NC lathes	37	817,093	46	1,273,108	34	912,266	64	1,399,820
Milling machines	21	1,285,651	27	1,256,940	56	1,629,636	35	6,730,275
Machining centers	18	2,251,834	27	4,699,366	21	6,179,301	33	5,723,799
Station type machines	7	6,763,963	10	16,280,662	3	3,750,445	0	0
Other metal cutting machines	223	7,078,662	278	7,046,503	322	7,317,458	266	6,517,985
Punching & shearing machines	108	4,513,331	79	5,456,279	85	4,584,562	157	4,594,728
Bending & forming machines	116	4,251,882	102	6,952,107	119	7,232,573	120	4,830,552
Presses	293	7,418,063	96	5,734,227	128	4,847,879	168	7,262,958
Forging machines	11	2,746,151	19	5,146,204	21	4,124,370	11	868,133
Other metal forming machines	231	7,030,224	185	7,182,512	193	9,543,993	308	14,549,088
MACHINE TOOL TOTAL	6,801	75,952,544	6,593	92,487,146	7,331	81,780,974	6,912	92,831,258

PRODUCT TYPES	MAY 1991		JUNE 1991		JULY 1991		AUGUST 1991	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & rebuilt & under $2,500	5,847	$14,473,978	6,716	$15,068,308	5,909	$16,595,564	7,211	$21,518,830
Boring machines	9	811,684	29	2,458,144	53	1,485,134	21	1,762,000
Drilling machines	81	1,767,423	182	2,096,676	182	2,218,922	78	1,759,560
Gear cutting machines	39	6,598,232	42	10,858,258	11	4,027,477	7	2,476,528
Grinding machines	285	9,241,644	390	12,599,243	398	11,576,263	308	6,788,528
NC horizontal lathes	19	1,914,295	25	2,373,736	26	2,567,207	23	2,111,735
NC vertical lathes	9	592,211	2	108,000	4	269,504	1	22,000
Non-NC lathes	45	1,357,057	49	2,263,152	27	407,865	35	1,881,608
Milling machines	57	5,134,958	73	6,889,800	57	3,124,857	48	2,636,055
Machining centers	37	5,715,931	24	2,660,799	26	3,139,607	12	948,374
Station type machines	4	3,143,769	6	2,649,559	5	4,718,427	2	80,000
Other metal cutting machines	341	8,257,118	273	9,131,128	198	4,100,231	281	9,631,000
Punching & shearing machines	111	5,445,644	129	3,810,698	132	3,568,471	115	4,809,018
Bending & forming machines	108	5,331,914	257	9,068,216	169	6,262,244	176	6,665,618
Presses	96	6,098,800	210	6,552,960	199	11,252,200	126	7,336,120
Forging machines	40	4,435,634	40	5,388,723	57	8,447,700	38	9,086,436
Other metal forming machines	223	22,718,552	234	11,390,564	225	6,748,375	194	11,311,721
MACHINE TOOL TOTAL	7,351	103,038,844	8,681	105,367,964	7,678	90,510,048	8,676	90,825,131

1991 U.S. EXPORTS BY PRODUCT GROUPS

PRODUCT TYPES	AUGUST 1991 YTD Units	AUGUST 1991 YTD Value	AUGUST 1990 Units	AUGUST 1990 Value	AUGUST 1990 YTD Units	AUGUST 1990 YTD Value	% CHANGE JULY'91–AUG'91 Units	% CHANGE JULY'91–AUG'91 Value
Used & rebuilt & under $2,500	47,537	$117,966,630	4,863	$14,611,340	40,083	$109,051,835	22.0%	29.7%
Boring machines	145	11,051,592	8	1,024,328	117	13,477,474	-60.4%	18.6%
Drilling machines	891	16,178,672	98	1,658,877	739	12,663,181	-57.1%	-20.7%
Gear cutting machines	174	45,400,046	4	2,246,285	159	35,694,886	-36.4%	-38.5%
Grinding machines	2,485	76,329,234	324	14,070,348	2,478	89,351,406	-22.6%	-41.4%
NC horizontal lathes	208	22,526,515	30	2,587,966	300	32,202,618	-11.5%	-17.7%
NC vertical lathes	26	1,955,734	12	4,857,652	48	7,820,818	-75.0%	-91.8%
Non-NC lathes	337	10,311,969	62	1,664,183	519	11,909,833	29.6%	361.3%
Milling machines	374	28,688,172	28	1,875,948	296	24,579,727	-15.8%	-15.6%
Machining centers	198	31,319,011	16	2,320,834	277	42,160,821	-53.8%	-69.8%
Station type machines	37	37,386,825	0	0	51	21,066,899	-60.0%	-98.3%
Other metal cutting machines	2,182	59,080,085	232	5,861,015	2,620	52,397,573	41.9%	134.9%
Punching & shearing machines	916	36,782,731	79	2,249,460	1,056	45,481,478	-12.9%	34.8%
Bending & forming machines	1,167	50,595,106	269	9,426,251	1,239	44,248,076	4.1%	6.4%
Presses	1,316	56,503,207	133	4,874,468	1,572	68,648,324	-36.7%	-34.8%
Forging machines	237	40,243,351	27	5,550,253	275	34,883,492	-33.3%	7.6%
Other metal forming machines	1,793	90,475,029	233	6,075,258	2,171	65,931,923	-13.8%	67.6%
MACHINE TOOL TOTAL	60,023	732,793,909	6,418	80,954,466	54,000	711,570,364	13.0%	0.3%

PRODUCT TYPES	% CHANGE AUG'90–AUG'91 Units	% CHANGE AUG'90–AUG'91 Value	% CHANGE YTD'90–YTD'91 Units	% CHANGE YTD'90–YTD'91 Value
Used & rebuilt & under $2,500	48.3%	47.3%	18.6%	8.2%
Boring machines	162.5%	72.0%	23.9%	-18.0%
Drilling machines	-20.4%	6.1%	20.6%	27.8%
Gear cutting machines	75.0%	10.2%	9.4%	27.2%
Grinding machines	-4.9%	-51.8%	0.3%	-14.6%
NC horizontal lathes	-23.3%	-18.4%	-30.7%	-30.0%
NC vertical lathes	-91.7%	-99.5%	-45.8%	-75.0%
Non-NC lathes	-43.5%	13.1%	-35.1%	-13.4%
Milling machines	71.4%	40.5%	26.4%	16.7%
Machining centers	-25.0%	-59.1%	-28.5%	-25.7%
Station type machines	NA	NA	-27.5%	77.5%
Other metal cutting machines	21.1%	64.3%	-16.7%	12.8%
Punching & shearing machines	45.6%	113.8%	-13.3%	-19.1%
Bending & forming machines	-34.6%	-29.3%	-5.8%	14.3%
Presses	-5.3%	50.5%	-16.3%	-17.7%
Forging machines	40.7%	63.7%	-13.8%	15.4%
Other metal forming machines	-16.7%	86.2%	-17.4%	37.2%
MACHINE TOOL TOTAL	35.2%	12.2%	11.2%	3.0%

1991 U.S. IMPORTS BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1991		FEBRUARY 1991		MARCH 1991		APRIL 1991	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & rebuilt & under $2,500	71,667	$13,094,991	94,612	$15,968,463	63,827	$14,630,134	91,842	$16,332,717
Boring machines	75	3,212,626	65	3,295,233	55	6,672,018	47	5,623,400
Drilling machines	136	5,284,960	72	2,124,951	105	5,761,640	107	2,964,231
Gear cutting machines	34	7,247,022	30	2,608,872	12	3,256,264	23	6,619,154
Grinding machines	662	23,141,603	464	17,045,322	540	20,820,588	509	26,824,722
NC horizontal lathes	158	17,509,455	251	25,854,656	244	28,306,454	280	25,531,297
NC vertical lathes	9	1,367,349	15	2,253,656	9	2,973,011	15	3,573,928
Non-NC lathes	722	8,815,703	340	4,755,176	312	7,055,881	317	4,534,633
Milling machines	449	12,771,541	257	2,795,380	250	4,970,541	330	9,449,803
Machining centers	293	33,595,255	212	22,089,069	167	23,849,656	189	59,165,452
Station type machines	14	4,189,738	4	1,830,253	5	1,401,630	19	4,376,300
Other metal cutting machines	448	11,368,644	217	12,635,073	254	16,773,980	329	18,589,257
Punching & shearing machines	67	5,697,766	59	1,638,364	89	5,334,266	100	4,429,933
Bending & forming machines	189	6,557,096	183	8,695,550	147	8,228,937	122	3,949,688
Presses	72	16,236,188	317	9,033,944	163	8,995,976	85	51,444,817
Forging machines	59	5,028,586	47	2,528,010	51	5,954,214	44	6,285,995
Other metal forming machines	286	13,786,011	230	15,783,509	277	12,006,374	243	13,702,533
MACHINE TOOL TOTAL	75,340	188,904,534	97,375	150,935,481	66,507	176,991,564	94,601	263,397,860

PRODUCT TYPES	MAY 1991		JUNE 1991		JULY 1991		AUGUST 1991	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	61,461	$13,487,177	60,137	$11,892,444	55,148	$13,352,862	74,318	$11,870,677
Boring machines	53	7,001,111	55	3,314,472	51	3,685,439	45	1,801,332
Drilling machines	79	6,287,879	146	3,825,684	73	2,839,334	86	2,335,487
Gear cutting machines	91	4,865,147	57	3,552,435	32	3,543,870	19	3,725,410
Grinding machines	515	14,511,571	382	13,752,180	468	18,779,695	386	21,596,437
NC horizontal lathes	197	20,692,781	196	20,231,721	199	18,351,920	227	23,514,958
NC vertical lathes	2	1,159,139	6	908,254	10	2,266,809	13	3,920,266
Non-NC lathes	442	10,258,079	402	8,630,438	555	6,940,660	308	4,206,757
Milling machines	226	5,441,990	328	6,999,359	374	6,736,063	292	4,643,995
Machining centers	199	40,498,256	231	62,377,569	249	23,528,172	204	28,546,978
Station type machines	16	13,375,688	8	1,595,456	8	8,078,447	16	13,974,758
Other metal cutting machines	252	18,837,312	314	9,426,321	298	12,496,402	289	12,912,572
Punching & shearing machines	109	4,442,498	74	5,337,144	106	5,805,391	84	4,603,173
Bending & forming machines	124	7,388,462	129	5,919,854	156	7,413,619	131	4,386,000
Presses	301	9,718,955	131	5,872,448	102	5,129,418	307	6,092,772
Forging machines	152	6,220,779	69	5,986,386	35	1,841,002	87	6,995,815
Other metal forming machines	172	10,036,703	180	9,024,713	194	9,644,967	131	9,510,828
MACHINE TOOL TOTAL	64,391	194,223,527	62,845	178,646,878	58,058	150,434,070	76,943	164,638,215

1991 U.S. IMPORTS BY PRODUCT GROUPS

PRODUCT TYPES	AUGUST 1991 YTD Units	AUGUST 1991 YTD Value	AUGUST 1990 Units	AUGUST 1990 Value	AUGUST 1990 YTD Units	AUGUST 1990 YTD Value	% CHANGE JULY'91–AUG'91 Units	% CHANGE JULY'91–AUG'91 Value
Used & Rebuilt & Under $2,500	573,012	$110,629,465	69,939	$13,198,803	537,734	$89,154,708	34.8%	-11.1%
Boring machines	446	34,605,631	40	4,597,123	369	23,308,613	-11.8%	-51.1%
Drilling machines	804	31,424,166	130	4,735,213	932	27,563,916	17.8%	-17.7%
Gear cutting machines	298	35,418,174	54	7,485,351	286	25,115,163	-40.6%	5.1%
Grinding machines	3,926	156,472,118	821	31,832,312	5,105	169,387,746	-17.5%	15.0%
NC horizontal lathes	1,752	179,993,242	274	30,277,624	1,997	189,198,638	14.1%	28.1%
NC vertical lathes	79	18,422,412	39	3,149,926	98	15,742,834	30.0%	72.9%
Non-NC lathes	3,398	55,197,327	498	8,340,641	5,112	72,736,825	-44.5%	-39.4%
Milling machines	2,506	53,808,672	348	7,789,763	3,444	50,306,041	-21.9%	-31.1%
Machining centers	1,744	293,650,407	239	40,781,551	1,997	248,010,154	-18.1%	21.3%
Station type machines	90	48,822,270	17	14,951,123	107	37,159,415	100.0%	73.0%
Other metal cutting machines	2,401	113,039,561	542	27,220,071	2,949	101,680,135	-3.0%	3.3%
Punching & shearing machines	688	37,288,535	163	6,554,127	1,052	43,912,030	-20.8%	-20.7%
Bending & forming machines	1,181	52,539,206	216	15,096,724	1,350	48,392,727	-16.0%	-40.8%
Presses	1,478	112,524,518	902	21,031,332	1,710	50,267,254	201.0%	18.8%
Forging machines	544	40,840,787	42	3,824,899	597	37,373,610	148.6%	280.0%
Other metal forming machines	1,713	93,495,638	227	13,026,763	1,630	78,200,032	-32.5%	-1.4%
MACHINE TOOL TOTAL	596,060	1,468,172,129	74,491	253,893,346	566,469	1,307,509,841	32.5%	9.4%

PRODUCT TYPES	% CHANGE AUG'90–AUG'91 Units	% CHANGE AUG'90–AUG'91 Value	% CHANGE YTD'90–YTD'91 Units	% CHANGE YTD'90–YTD'91 Value
Used & Rebuilt & Under $2,500	6.3%	-10.1%	6.6%	24.1%
Boring machines	12.5%	-60.8%	20.9%	48.5%
Drilling machines	-33.8%	-50.7%	-13.7%	14.0%
Gear cutting machines	-64.8%	-50.2%	4.2%	41.0%
Grinding machines	-53.0%	-32.2%	-23.1%	-7.6%
NC horizontal lathes	-17.2%	-22.3%	-12.3%	-4.9%
NC vertical lathes	-66.7%	24.5%	-19.4%	17.0%
Non-NC lathes	-38.2%	-49.6%	-33.5%	-24.1%
Milling machines	-16.1%	-40.4%	-27.2%	7.0%
Machining centers	-14.6%	-30.0%	-12.7%	18.4%
Station type machines	-5.9%	-6.5%	-15.9%	31.4%
Other metal cutting machines	-46.7%	-52.6%	-18.6%	11.2%
Punching & shearing machines	-48.5%	-29.8%	-34.6%	-15.1%
Bending & forming machines	-39.4%	-70.9%	-12.5%	8.6%
Presses	-66.0%	-71.0%	-13.6%	123.9%
Forging machines	107.1%	82.9%	-8.9%	9.3%
Other metal forming machines	-42.3%	-27.0%	5.1%	19.6%
MACHINE TOOL TOTAL	3.3%	-35.2%	5.2%	12.3%

U.S. EXPORTS
Metal Cutting Machine Tools - August 91

RELEASED: October 30, 1991

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	85	5972	8	497
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm (26")	56	8089	3	404
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm (26")	12	2496	0	0
100035	Horizontal machining centers, ATC	26	9887	0	0
100045	Machining centers, n.e.c.	104	10847	9	544
200010	Unit construction mach. (single station transfer), NC	5	2147	0	0
200090	Unit construction mach. (single station transfer), non-NC	10	2767	0	0
300010	Multi-station transfer machines, NC	8	14559	0	0
300090	Multi-station transfer machines, non-NC	10	17657	0	0
8458110010	Horizontal lathes, multiple spindle, NC	22	3104	1	62
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	142	12180	14	1230
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	26	3893	6	589
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	18	3349	2	230
190030	Horizontal engine or toolroom lathes, non-NC	30	492	4	137
190050	Automatic bar and/or chucking mach., single spindle, non-NC	17	205	2	32
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	34	2340	2	601
190090	Horizontal lathes, n.e.c., non-NC	179	4932	19	773
911060	Vertical turret lathes, multiple spindle, NC	0	0	0	0
911080	Vertical turret lathes, n.e.c., NC	1	261	0	0
915050	Vertical lathes, excl. VTL's, multiple spindle, NC	0	0	0	0
915070	Vertical lathes, excluding VTL's, n.e.c., NC	25	1694	1	22
991050	Vertical turret lathes, non-NC	26	401	0	0
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	51	1941	8	340
8459100000	Way-type unit head machines	4	257	2	80
210080	Other drilling machines, NC	132	10101	12	1121
290040	Drilling machines, multiple spindle, non-NC	2	287	2	287
290050	Drilling machines, radial, non-NC	16	269	3	23
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	20	619	2	6
290090	Drilling machines, n.e.c., non-NC	721	4903	59	323
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	1	394	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	6	3853	2	883
310070	Boring-milling machines, n.e.c., NC	18	1217	2	90
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	2	113	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	15	357	5	104
400040	Boring machines, vertical, NC	6	471	0	0
400050	Boring machines, vertical, non-NC	27	1227	3	66
400070	Boring machines, n.e.c., NC	1	148	0	0
400080	Boring machines, n.e.c., non-NC	69	3271	9	620
510080	Milling machines, knee type, NC	16	1284	2	173
590030	Milling machines, knee type, non-NC	83	3085	13	477
610080	Milling machines, excluding knee type, n.e.c., NC	46	16549	1	69
690050	Milling machines, profile, dup., or die sinking, non-NC	3	24	0	0
690070	Milling machines, bed type, non-NC	1	37	0	0
690090	Milling machines, n.e.c., non-NC	225	7710	32	1917
700020	Threading or tapping machines, n.e.c., NC	49	2067	4	97
700080	Threading or tapping machines, n.e.c., non-NC	156	5726	11	543
8460110080	Flat surface grinding machines, NC	45	3797	10	328
190010	Flat surface grinding mach., recip.-table type, non-NC	54	783	5	83
190050	Flat surface grinding machines, n.e.c., non-NC	26	3320	4	728
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	91	29680	5	1061
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	29	4670	4	322
290030	Grinding machines, internal cylindrical, non-NC	12	820	1	34
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	287	8955	37	1555
310080	Sharpening machines (tool & cutter grinding), NC	23	1739	3	282
390050	Sharpening machines (tool & cutter grinding), non-NC	685	5939	81	517
400060	Honing or lapping machines, NC	5	340	4	290
400080	Honing or lapping machines, non-NC	405	5966	30	337
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	3	77	0	0
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	820	10243	124	1251
8461100060	Planing machines, NC	1	200	1	200
100080	Planing machines, non-NC	131	4781	26	1976
200010	Shaping or slotting machines, NC	10	1460	1	410
200090	Shaping or slotting machines, non-NC	28	747	3	79
300060	Broaching machines, NC	9	1196	6	706
300080	Broaching machines, non-NC	31	1595	2	72
401050	Gear hobbers	41	3217	1	29
401070	Gear shapers	7	742	1	70
401090	Gear cutting machines, n.e.c.	79	35908	4	2127
405060	Gear grinding or finishing machines	47	5533	1	250
500050	Sawing or cutting-off machines, NC	65	3425	12	458
500090	Sawing or cutting-off machines, non-NC	1035	12430	107	1229
9000000001	Metal cutting machine tools, n.e.c.	582	19483	100	3364
9800000001	Used or rebuilt machine tools	4594	52637	1408	14247
9900000001	Machine tools valued at less than $3,025	29713	16512	4284	1949
	Cutting Total			6508	46293
	Y-T-D Cutting Total	41364	409377		
	NC Y-T-D Cutting Total*	1223	166409		

Please see notes on last page of the metal forming section.

U.S. EXPORTS
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	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	2	76
8457100015	0	0	0	0	0	0	0	0	1	177
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	1	140
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	1	76
110050	0	0	0	0	0	0	0	0	1	112
110090	0	0	0	0	0	0	0	0	2	230
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	1	22
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	6	65
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	1	147
8459100000	0	0	0	0	0	0	0	0	0	0
210080	1	40	0	0	0	0	0	0	1	147
290040	0	0	0	0	0	0	0	0	1	270
290050	0	0	0	0	0	0	0	0	1	4
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	3	21	32	177
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	1	235
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	1	82
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	186
510080	0	0	0	0	0	0	0	0	1	145
590030	1	19	0	0	0	0	0	0	1	29
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	4	274
700020	0	0	0	0	3	78	0	0	0	0
700080	0	0	0	0	1	48	0	0	3	13
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	1	18
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	2	230
290030	0	0	0	0	0	0	0	0	0	0
290050	1	21	0	0	0	0	0	0	1	36
310080	0	0	0	0	0	0	0	0	1	221
390050	0	0	0	0	0	0	7	47	8	55
400060	0	0	0	0	0	0	0	0	1	31
400080	0	0	2	32	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	1	10	0	0	0	0	11	209	18	152
8461100060	0	0	0	0	1	200	0	0	0	0
100080	0	0	0	0	12	976	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	1	23	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	6	706
300080	0	0	0	0	0	0	0	0	2	72
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	11	399
500090	1	11	0	0	0	0	0	0	11	84
9000000001	0	0	0	0	1	371	2	24	19	188
9800000001	2	27	0	0	1	6	0	0	164	2214
9900000001	101	90	0	0	99	63	7	4	252	298
Month Tot	109	240	2	32	118	1742	30	305	560	7310
Y-T-D Tot	648	3217	56	687	846	8151	334	8718	3927	58793
NC YTD Tot*	6	1163	0	0	44	4834	28	4121	220	32493

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	China		France		Germany **		India		Indonesia	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	1	33	0	0	4	357	0	0	0	0
8457100015	0	0	0	0	1	119	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	1	51	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	2	19
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	3	28	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	3	98	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	1	307	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	1	34	0	0	0	0
290050	0	0	0	0	0	0	8	626	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	4	27	18	121	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	4	42	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	22	269	3	36	12	84	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	1	410	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	1	53
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	1	457	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	2	9	4	27	0	0	0	0
9000000001	0	0	21	576	4	200	0	0	0	0
9800000001	1	1038	15	36	1	5	315	788	4	66
9900000001	0	0	116	63	290	105	0	0	24	14
Month Tot	26	2058	162	798	346	1677	323	1414	31	152
Y-T-D Tot	526	18921	1250	11339	2810	40605	789	10518	60	4608
NC YTD Tot*	38	12653	50	7019	164	25819	11	2014	3	723

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	Italy		Japan		Korea		Malaysia		Mexico	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	1	109	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	2	134	0	0	0	0	3	160
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	1	62	0	0	0	0	0	0
110030	0	0	6	473	3	228	0	0	0	0
110050	0	0	0	0	3	220	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	1	10
190070	0	0	0	0	0	0	0	0	1	556
190090	0	0	0	0	0	0	0	0	8	277
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	1	22
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	6	142	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	2	80
210080	0	0	0	0	1	34	0	0	3	282
290040	0	0	0	0	0	0	0	0	1	17
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	1	7	0	0	10	44	0	0	7	35
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	2	90
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	4	22
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	2	26	16	1450	0	0	6	40
700020	0	0	0	0	0	0	0	0	0	0
700060	0	0	0	0	0	0	0	0	2	459
8460110080	0	0	0	0	2	55	0	0	2	73
190010	0	0	0	0	3	58	0	0	0	0
190050	0	0	0	0	0	0	0	0	1	95
210080	0	0	3	450	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	10	360	0	0	1	254	0	0	16	258
310080	1	35	0	0	0	0	0	0	0	0
390050	1	5	31	197	3	21	1	4	4	15
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	6	68	2	30	0	0	1	3
900060	0	0	0	0	0	0	0	0	0	0
900080	4	20	4	50	2	30	0	0	9	59
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	3	520	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	1	29
401070	0	0	0	0	0	0	0	0	0	0
401090	1	316	2	1355	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	1	59	0	0
500090	0	0	9	41	12	219	1	10	29	159
9000000001	0	0	9	414	6	130	1	21	12	179
9800000001	15	105	8	29	19	5130	5	250	298	1054
9900000001	34	15	517	244	131	101	56	64	956	301
Month Tot	68	972	603	4063	220	8144	65	408	1370	4275
Y-T-D Tot	743	9053	4496	41651	2664	36550	225	2893	7893	37878
NC YTD Tot*	16	3784	106	11392	58	10278	6	187	146	13783

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	Netherlands		Singapore		Spain		Switzerland		Taiwan	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	1	40
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	1	47
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	1	10	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	24	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	1	5	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	1	648	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	10	403	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	1	3
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	1	8
190050	0	0	0	0	0	0	0	0	1	213
210080	0	0	0	0	0	0	0	0	0	0
290010	2	92	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	1	7	3	15	0	0	2	30
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	1	5	2	31	2	12	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	4	90	0	0	0	0	4	86
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	1	250	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	1	29	0	0	0	0	6	118
9000000001	1	257	0	0	0	0	3	32	9	731
9800000001	4	24	5	126	0	0	0	0	3	28
9900000001	31	19	349	112	23	15	31	31	29	44
Month Tot	39	398	373	1443	28	61	38	334	58	1349
Y-T-D Tot	491	3792	2173	6600	210	1234	693	4214	1110	9278
NC YTD Tot*	7	1575	18	1913	1	27	17	2258	27	3260

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	Thailand		U.K.		USSR		Venezuela		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	1	32
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	2	70
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	3	377	0	0	0	0	1	76
110050	0	0	0	0	1	132	1	126	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	2	74	0	0	0	0	1	15
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	1	45
190090	0	0	0	0	0	0	4	422	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	5	594
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	2	6
290090	0	0	0	0	0	0	0	0	2	7
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	3	66
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	8	434
510080	0	0	1	28	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	1	25
610080	0	0	0	0	0	0	0	0	1	69
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	4	126	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	1	19
700080	0	0	1	10	0	0	0	0	3	10
8460110080	0	0	0	0	0	0	0	0	3	103
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	2	420	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	1	303
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	1	26	0	0	0	0	0	0
390050	0	0	4	25	0	0	0	0	0	0
400060	0	0	3	259	0	0	0	0	0	0
400080	0	0	1	5	0	0	0	0	8	105
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	5	48	7	80	7	78	14	78
8461100060	0	0	0	0	0	0	0	0	0	0
100080	1	22	0	0	0	0	1	13	1	269
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	1	4	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	1	70
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	14	296	5	91	6	88	6	47
9000000001	1	7	0	0	0	0	7	89	4	145
9800000001	0	0	513	1860	0	0	4	63	31	1398
9900000001	102	10	151	59	0	0	135	46	850	249
Month Tot	104	39	706	3618	13	302	165	924	951	4235
Y-T-D Tot	662	1734	3065	21021	166	17926	747	8143	4780	41855
NC YTD Tot*	13	800	106	10114	5	456	19	1948	114	13796

Please see notes on last page of the metal forming section.

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RELEASED: October 30, 1991

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	216	4984	19	670
8462100030	Headers and upsetters, including cold headers	39	19408	6	6113
100050	Forging or die stamping machines, and hammers, n.e.c.	198	20836	32	2974
210080	Bending, folding, straight. or flat. mach., incl presses, NC	176	18302	18	915
290030	Press brakes, non-NC	77	2747	9	132
290040	Bending rolls, non-NC	41	1098	1	13
290050	Bending, folding, straight., or flat., n.e.c., non-NC	873	28449	148	5606
310080	Shearing machines, NC	68	5208	3	212
390050	Shearing machines, non-NC	235	6457	35	1424
410080	Punching or notching mach., incl. comb. punch & shear, NC	82	12392	15	1571
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	531	12726	62	1602
910060	Hydraulic presses, NC	20	892	2	119
910090	Hydraulic presses, non-NC	409	12561	47	1868
990030	Presses, n.e.c., NC	139	7038	11	402
990040	Presses, mechanical, non-NC	119	10255	5	508
990060	Presses, n.e.c., non-NC	629	25757	61	4439
8463100080	Draw benches for bars, tubes, profiles, wire or the like	155	5986	10	339
200080	Thread rolling machines	36	1122	11	348
300080	Machines for working wire	494	14414	41	717
900080	Metal forming machine tools, n.e.c.	892	63969	113	9238
9800000002	Used or rebuilt machine tools	2385	40372	178	4319
9900000002	Machine tools valued at less than $3,025	10845	8445	341	1004
	Forming Total			2168	44532
	Y-T-D Forming Total	18659	323417		
	NC Y-T-D Forming Total	485	43831		
	Cutting and Forming Totals:				
	Monthly Total			8676	90825
	Y-T-D Total	60023	732794		
	NC Y-T-D Total*	1708	210240		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	444819	0	49470
2000000000	Parts for working rubber or plastics - heading 8477	0	177083	0	18931
2710003070	Quenching or cutting oils	0	4655	0	678
8428900010	Industrial robots for lifting, handling, loading or unload	431	3854	73	296
8431390090	Parts industrial robots, handling and loading - heading 8428	0	66684	0	6291
8456100000	Laser, light or photon beam for working any material	409	24852	34	1860
200000	Ultrasonic process for working any material	43	1051	1	29
8477106010	Injection molding mach., for rubber or oth. thermosetting	182	12848	22	2219
106070	Injection molding machines, for thermoplastics	283	32025	46	4259
200005	Extruders; rubber or other thermosetting mat., single screw	88	6581	4	135
200015	Extruders; rubber or thermosetting, other incl. multi. screw	103	8958	7	265
200030	Extruders; thermoplastics, single screw	343	15820	22	1426
200060	Extruders; thermoplastics, other incl. multi. screw	69	6872	5	127
300000	Blow molding machines	391	20954	59	1725
400000	Vacuum-molding and other thermoforming machines	707	5055	50	97
510010	Machines for molding or retreading pneumatic tires	2194	11515	346	2565
510090	Machines for molding or otherwise forming inner tubes	394	10134	16	1520
590000	Machines for molding or otherwise forming n.e.c.	1094	16604	121	808
800000	Machines for working rubber or plastics n.e.c.	3420	50049	461	7925
8479899040	Industrial robots, n.e.c.	4009	44784	646	6825
908040	Industrial robot parts	0	23695	0	2226
8537100030	Numerical controls for controlling machine tools	1096	15807	130	1994
9024100000	Machines and appliances for testing metals	0	48137	0	7205
9031100000	Machines for balancing mechanical parts	0	19323	0	2417
300000	Profile projectors	0	3296	0	316
9032810040	Industrial process control instr., hydraulic or pneumatic	601307	33140	47405	3108

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

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	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	1	11	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	2	210
290030	0	0	0	0	0	0	0	0	2	38
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	1	59	22	675	23	213
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	1	23
410080	0	0	0	0	0	0	1	46	1	232
490050	3	107	0	0	0	0	0	0	18	240
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	3	87	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	0	0	4	34
8463100080	0	0	0	0	2	35	0	0	0	0
200080	0	0	0	0	0	0	0	0	1	110
300060	0	0	0	0	0	0	0	0	2	62
900080	18	6013	0	0	0	0	1	16	9	78
9800000002	0	0	0	0	0	0	0	0	35	455
9900000002	63	18	0	0	45	26	9	7	162	153
Month Tot	84	6138	0	0	51	207	34	756	260	1847
Y-T-D Tot	391	8831	12	324	301	2092	158	4825	2256	30441
NC YTD Tot	3	181	3	99	20	554	6	632	56	7173
C&F Month	193	6378	2	32	169	1948	64	1061	820	9157
C&F Y-T-D	1039	12048	68	1011	1147	10242	492	13543	6183	89234
C&F NC YTD*	9	1344	3	99	64	5388	34	4753	276	39666

Other Manufacturing Technology

1000000000	0	1134	0	139	0	840	0	593	0	9165
2000000000	0	161	0	335	0	111	0	485	0	4148
2710003070	0	5	0	0	0	0	0	19	0	128
8428900010	0	0	0	0	0	0	0	0	6	147
8431390090	0	112	0	0	0	326	0	0	0	655
8456100000	0	0	0	0	1	25	0	0	3	236
200000	0	0	0	0	0	0	0	0	0	0
8477106010	1	26	0	0	2	676	0	0	1	35
106070	0	0	0	0	2	132	0	0	4	408
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	0	0	0	0	7	265
200030	0	0	0	0	0	0	1	36	0	0
200060	1	25	1	15	0	0	0	0	0	0
300000	1	3	0	0	0	0	0	0	1	29
400000	0	0	0	0	0	0	0	0	1	83
510010	0	0	0	0	0	0	4	108	30	753
510090	0	0	0	0	0	0	1	518	0	0
590000	50	17	0	0	0	0	1	18	2	64
800000	5	20	0	0	2	58	2	30	114	2575
8479899040	1	11	0	0	0	0	0	0	456	3578
908040	0	9	0	0	0	11	0	0	0	646
8537100030	3	42	0	0	0	0	4	101	6	84
9024100000	0	21	0	0	0	11	0	88	0	475
9031100000	0	3	0	0	0	0	0	0	0	602
300000	0	0	0	0	0	0	0	0	0	7
9032810040	515	35	93	7	471	31	255	28	2543	274

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
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	China		France		Germany **		India		Indonesia	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	1	7	11	520	1	10	0	0
8462100030	0	0	0	0	2	168	0	0	0	0
100050	0	0	8	542	2	83	0	0	0	0
210080	0	0	0	0	1	24	1	29	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	2	92	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	1	85	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	7	158	0	0	9	108
910060	0	0	0	0	2	119	0	0	0	0
910090	0	0	0	0	12	400	0	0	5	157
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	1	25	0	0	0	0
990060	0	0	0	0	16	1168	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	1	14
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	5	32	6	111	0	0	0	0
900080	27	932	1	834	0	0	0	0	0	0
9800000002	0	0	11	293	6	327	0	0	0	0
9900000002	0	0	101	87	105	69	15	13	0	0
Month Tot	27	932	127	1794	174	3347	17	53	15	279
Y-T-D Tot	321	19239	769	18452	1387	30675	89	872	111	3735
NC YTD Tot	16	1571	32	2613	32	3557	2	170	0	0
C&F Month	53	2990	289	2593	520	5024	340	1466	46	430
C&F Y-T-D	847	38161	2019	29791	4197	71280	878	11390	171	8343
C&F NC YTD*	54	14225	82	9632	196	29376	13	2183	3	723

Other Manufacturing Technology

1000000000	0	549	0	2887	0	5808	0	110	0	131
2000000000	0	182	0	1392	0	1266	0	43	0	24
2710003070	0	0	0	0	0	0	0	0	0	56
8428900010	0	0	0	0	4	4	0	0	0	0
8431390090	0	0	0	164	0	114	0	0	0	182
8456100000	0	0	0	0	2	369	0	0	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	1	141	5	230	0	0	0	0
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	0	0	0	0	0	0
200030	0	0	0	0	8	287	0	0	0	0
200060	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	0	2	54	0	0	0	0
400000	0	0	20	10	0	0	0	0	0	0
510010	0	0	0	0	0	0	0	0	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	4	46	1	22	0	0	0	0
800000	19	978	0	0	1	8	132	521	0	0
8479899040	0	0	23	188	85	1952	0	0	1	20
908040	0	0	0	17	0	214	0	0	0	0
8537100030	4	60	9	136	16	223	0	0	0	0
9024100000	0	0	0	50	0	558	0	45	0	0
9031100000	0	10	0	0	0	0	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	0
9032810040	0	0	3422	191	2263	191	85	12	0	0

Note: Poduct Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
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	Italy		Japan		Korea		Malaysia		Mexico	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	2	85
8462100030	!	3009	3	2936	0	0	0	0	0	0
100050	1	142	0	0	2	116	0	0	11	1501
210080	0	0	1	62	3	139	0	0	2	138
290030	0	0	0	0	0	0	0	0	6	60
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	5	30	3	104	0	0	12	291
310080	0	0	2	137	1	75	0	0	0	0
390050	1	7	6	35	5	70	0	0	11	382
410080	0	0	0	0	2	514	0	0	1	22
490050	0	0	0	0	0	0	0	0	11	377
910060	0	0	0	0	0	0	0	0	0	0
910090	1	72	0	0	0	0	0	0	23	590
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	1	30	0	0	0	0	0	0
990060	0	0	6	366	2	615	1	240	25	191
8463100080	0	0	1	7	0	0	0	0	2	46
200080	0	0	9	222	0	0	0	0	0	0
300080	1	4	5	89	2	29	0	0	5	147
900080	0	0	6	119	4	120	3	70	10	122
9800000002	4	178	1	112	1	180	0	0	60	700
9900000002	15	15	91	77	45	39	7	6	260	217
Month Tot	24	3428	137	4221	70	2002	11	316	441	4869
Y-T-D Tot	474	9493	1266	27921	633	18843	113	1176	3770	40297
NC YTD Tot	4	606	36	4170	39	4041	1	29	54	5144
C&F Month	92	4400	740	8284	290	10146	76	724	1811	9145
C&F Y-T-D	1217	18546	5762	69571	3297	55392	338	4069	11663	78175
C&F NC YTD*	20	4390	142	15561	97	14319	7	216	200	18927

Other Manufacturing Technology

1000000000	0	998	0	3599	0	2028	0	477	0	4354
2000000000	0	163	0	2073	0	255	0	648	0	1911
2710003070	0	0	0	158	0	33	0	0	0	0
8428900010	1	6	61	136	0	0	0	0	1	3
8431390090	0	6	0	323	0	35	0	0	0	712
8456100000	2	87	5	102	1	155	0	0	0	0
200000	0	0	0	0	0	0	0	0	1	29
8477106010	0	0	0	0	0	0	0	0	10	511
106070	0	0	5	473	0	0	0	0	19	2477
200005	0	0	1	50	0	0	0	0	0	0
200015	0	0	0	0	0	0	0	0	0	0
200030	0	0	4	88	2	50	0	0	3	86
200060	0	0	0	0	0	0	0	0	3	88
300000	1	9	0	0	1	24	0	0	37	790
400000	0	0	29	3	0	0	0	0	0	0
510010	0	0	0	0	19	480	0	0	2	57
510090	0	0	1	643	0	0	0	0	3	36
590000	0	0	9	177	4	89	0	0	26	12
800000	18	284	34	1055	1	21	1	19	50	1044
8479899040	0	0	14	437	1	9	0	0	53	320
908040	0	5	0	471	0	6	0	0	0	193
8537100030	1	12	3	48	6	94	7	100	4	65
9024100000	0	57	0	1979	0	294	0	15	0	194
9031100000	0	0	0	100	0	1116	0	0	0	140
300000	0	36	0	108	0	114	0	0	0	5
9032810040	1238	197	1106	89	872	53	52	3	588	63

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
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	Netherlands		Singapore		Spain		Switzerland		Taiwan	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	5	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	29	1	35	0	0	3	102
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	4	95	0	0	0	0	2	12
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	2	235	0	0	0	0	0	0	8	521
490050	1	5	0	0	0	0	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	1	13
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	0	0	1	181
8463100080	1	207	0	0	0	0	0	0	0	0
200080	0	0	1	16	0	0	0	0	0	0
300080	1	12	0	0	1	16	2	31	0	0
900080	1	9	1	10	0	0	0	0	0	0
9800000002	0	0	1	25	1	415	2	24	2	50
9900000002	56	32	62	26	0	0	28	24	0	0
Month Tot	63	505	70	201	3	467	32	80	17	879
Y-T-D Tot	756	8238	351	4421	147	4103	249	1515	217	6144
NC YTD Tot	17	1920	13	836	5	250	3	181	20	1437
C&F Month	102	903	443	1644	31	527	70	414	75	2228
C&F Y-T-D	1247	12030	2524	11020	357	5337	942	5729	1327	15422
C&F NC YTD*	24	3495	31	2749	6	277	20	2439	47	4697

Other Manufacturing Technology

1000000000	0	617	0	956	0	350	0	567	0	782
2000000000	0	169	0	139	0	64	0	149	0	291
2710003070	0	0	0	13	0	0	0	4	0	87
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	192	0	11	0	4	0	3	0	361
8456100000	3	271	0	0	0	0	0	0	1	75
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	1	27
106070	0	0	0	0	0	0	0	0	0	0
200005	0	0	0	0	0	0	0	0	1	40
200015	0	0	0	0	0	0	0	0	0	0
200030	0	0	1	500	0	0	0	0	2	360
200060	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	235	397	0	0	1	75	0	0	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	10	120	0	0	4	59	0	0	0	0
800000	0	0	1	10	0	0	0	0	2	19
8479899040	0	0	1	3	1	5	0	0	0	0
908040	0	18	0	0	0	0	0	265	0	26
8537100030	0	0	38	560	1	12	0	0	4	45
9024100000	0	27	0	125	0	28	0	108	0	349
9031100000	0	0	0	186	0	24	0	0	0	3
300000	0	0	0	13	0	0	0	0	0	24
9032810040	4230	524	4505	257	595	36	74	7	7	12

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 91

Metal Forming

	Thailand		U.K.		USSR		Venezuela		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	2	33
8462100J30	0	0	0	0	0	0	0	0	0	0
100050	1	181	0	0	0	0	0	0	7	408
210080	2	97	0	0	0	0	0	0	1	51
290030	0	0	0	0	0	0	1	33	0	0
290040	0	0	0	0	0	0	0	0	1	13
290050	0	0	65	3907	0	0	0	0	9	128
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	10	822
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	0	0	0	0	13	608
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	1	506	0	0	0	0	1	43
990030	0	0	0	0	0	0	0	0	11	402
990040	0	0	2	401	0	0	0	0	1	52
990060	0	0	3	1565	0	0	0	0	3	80
8463100080	0	0	3	30	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	7	0	0	0	0	0	0	10	174
900080	1	11	5	121	0	0	0	0	26	784
9800000002	9	526	9	152	0	0	0	0	36	884
9900000002	8	5	77	69	0	0	14	12	178	106
Month Tot	22	826	165	6750	0	0	15	46	309	4589
Y-T-D Tot	260	7179	1254	24182	3	123	264	1574	3107	48722
NC YTD Tot	13	1174	48	2089	2	97	1	41	59	5268
C&F Month	126	865	871	10369	13	302	180	969	1260	8824
C&F Y-T-D	922	8913	4319	45203	169	18049	1011	9716	7887	90577
C&F NC YTD*	26	1974	154	12203	7	553	20	1989	173	19064

Other Manufacturing Technology

1000000000	0	554	0	3567	0	17	0	709	0	8537
2000000000	0	567	0	806	0	0	0	298	0	3247
2710003070	0	10	0	0	0	0	0	3	0	161
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	236	0	239	0	0	0	594	0	2023
8456100000	0	0	11	215	0	0	0	0	5	326
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	1	110	0	0	3	667	3	166
106070	1	64	0	0	0	0	4	147	5	187
200005	0	0	0	0	0	0	2	45	0	0
200015	0	0	0	0	0	0	0	0	0	0
200030	0	0	0	0	0	0	0	0	1	20
200060	0	0	0	0	0	0	0	0	0	0
300000	0	0	14	601	0	0	0	0	2	216
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	0	0	0	0	0	0	55	695
510090	0	0	0	0	0	0	0	0	11	323
590000	0	0	8	145	0	0	0	0	2	41
800000	0	0	3	294	0	0	0	0	76	989
8479899040	0	0	7	249	1	47	0	0	2	4
908040	0	0	0	201	0	0	0	51	0	94
8537100030	0	0	21	378	0	0	0	0	3	34
9024100000	0	401	0	490	0	0	0	0	0	1890
9031100000	0	100	0	31	0	0	0	0	0	100
300000	0	0	0	0	0	0	0	0	0	10
9032810040	6600	20	5227	298	3	14	112	6	12549	761

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
August 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	0	0	0	0	0	0
Denmark	0	0	15	57	15	57
Finland	0	0	2	8	2	8
Greece	0	0	0	0	0	0
Hungary	0	0	1	52	1	52
Iceland	0	0	0	0	0	0
Ireland	11	918	26	1286	37	2204
Luxembourg	0	0	4	3	4	3
Norway	3	16	0	0	3	16
Poland	0	0	0	0	0	0
Portugal	8	336	7	6	15	342
Romania	0	0	0	0	0	0
Sweden	19	61	21	80	40	141
Turkey	1	303	13	79	14	382
Yugoslavia	0	0	2	14	2	14
Oth Europe	1	15	0	0	1	15
TOTAL	1563	11584	730	18164	2293	29748
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	0	0	0	0
Barbados	0	0	0	0	0	0
Belize	5	9	0	0	5	9
Bermuda	0	0	0	0	0	0
Costa Rica	10	43	7	73	17	116
Dominican Rep	23	96	15	29	38	125
El Salvador	1	3	0	0	1	3
Guatemala	0	0	6	497	6	497
Haiti	0	0	0	0	0	0
Honduras	3	8	1	8	4	16
Jamaica	544	16	1	3	545	19
Panama	2	4	0	0	2	4
Trinidad	1	3	0	0	1	3
Oth N & C Am.	0	0	0	0	0	0
TOTAL	2519	11767	731	7326	3250	19093
SOUTH AMERICA						
Argentina	9	355	33	24	42	379
Bolivia	0	0	0	0	0	0
Chile	11	670	35	96	46	766
Colombia	0	0	2	12	2	12
Ecuador	0	0	2	25	2	25
Paraguay	0	0	0	0	0	0
Peru	3	26	2	39	5	65
Uruguay	4	10	0	0	4	10
Oth South Am.	0	0	0	0	0	0
TOTAL	222	2290	123	997	345	3287
OCEANIA						
New Zealand	5	6	5	16	10	22
Oth Oceania	0	0	0	0	0	0
TOTAL	114	246	89	6154	203	6399

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
August 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	57	552	33	699	90	1251
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	14	112	6	114	20	225
Jordan	0	0	0	0	0	0
Kuwait	36	12	0	0	36	12
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	9	25	11	817	20	843
Qatar	0	0	0	0	0	0
Saudi Arabia	35	205	6	395	41	599
Sri Lanka	0	0	0	0	0	0
Syria	0	0	0	0	0	0
United Arab Emr	22	13	34	11	56	24
Vietnam	0	0	0	0	0	0
Oth Asia	66	6	0	0	66	6
TOTAL	2042	19994	476	11744	2518	31738
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	11	17	3	66	14	83
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	3	29	3	29
Guinea	0	0	0	0	0	0
Kenya	0	0	1	27	1	27
Mala[illegible]	0	0	0	0	0	0
Mauriti[illegible]	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	6	126	0	0	6	126
South Africa	31	270	11	9	42	279
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	1	16	1	16
Zimbabwe	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	48	412	19	147	67	559

Note: Region totals include top countries detailed by product as well as countries listed above.
** West and East Germany are combined.
Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

U.S. IMPORTS - Metal Cutting Machine Tools - August 91

RELEASED: October 30, 1991

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301020	Traveling wire electro-discharge machines	473	35105	59	4335
301050	Electro-discharge machines, n.e.c., NC	130	11737	12	686
301070	Electro-discharge machines, n.e.c., non-NC	213	2332	18	300
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm (26")	1125	93427	128	10850
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm (26")	77	12840	4	577
100035	Horizontal machining centers, ATC	337	71663	40	8956
100045	Machining centers, n.e.c.	205	115720	32	8163
200010	Unit construction mach. (single station transfer), NC	27	7130	3	881
200090	Unit construction mach. (single station transfer), non-NC	7	1968	1	291
300010	Multi-station transfer machines, NC	15	22219	6	10641
300090	Multi-station transfer machines, non-NC	36	17130	3	1859
8458110010	Horizontal lathes, multiple spindle, NC	185	31061	23	4174
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	1239	93529	142	10329
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	286	40797	54	7105
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	42	14606	8	1907
190030	Horizontal engine or toolroom lathes, non-NC	2336	21473	199	1727
190050	Automatic bar and/or chucking mach., single spindle, non-NC	256	6574	27	268
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	25	3055	1	170
190090	Horizontal lathes, n.e.c., non-NC	351	14553	12	169
911060	Vertical turret lathes, multiple spindle, NC	12	2775	5	1360
911080	Vertical turret lathes, n.e.c., NC	36	9507	7	2494
915050	Vertical lathes, excl. VTL's, multiple spindle, NC	14	2952	1	66
915070	Vertical lathes, excluding VTL's, n.e.c., NC	17	3187	0	0
991050	Vertical turret lathes, non-NC	78	2163	4	820
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	352	7379	65	1052
8459100000	Way-type unit head machines	5	375	3	303
210080	Other drilling machines, NC	275	20109	35	1673
290040	Drilling machines, multiple spindle, non-NC	18	1463	5	248
290050	Drilling machines, radial, non-NC	160	1722	20	282
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	40	375	0	0
290090	Drilling machines, n.e.c., non-NC	311	7754	26	134
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	12	5575	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	57	10897	2	933
310070	Boring-milling machines, n.e.c., NC	13	3848	0	0
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	4	271	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	67	4126	1	79
400040	Boring machines, vertical, NC	8	1188	0	0
400050	Boring machines, vertical, non-NC	39	747	1	4
400070	Boring machines, n.e.c., NC	12	3848	0	0
400080	Boring machines, n.e.c., non-NC	234	4105	41	786
510080	Milling machines, knee type, NC	250	4988	13	634
590030	Milling machines, knee type, non-NC	1631	13581	250	1792
610080	Milling machines, excluding knee type, n.e.c., NC	330	25666	22	1973
690050	Milling machines, profile, dup., or die sinking, non-NC	24	696	1	64
690070	Milling machines, bed type, non-NC	24	672	0	0
690090	Milling machines, n.e.c., non-NC	247	8206	6	181
700020	Threading or tapping machines, n.e.c., NC	139	8364	29	1626
700080	Threading or tapping machines, n.e.c., non-NC	113	3272	15	363
8460110080	Flat surface grinding machines, NC	92	9500	12	2911
190010	Flat surface grinding mach., recip.-table type, non-NC	267	3781	16	291
190050	Flat surface grinding machines, n.e.c., non-NC	823	10018	99	1036
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	329	54700	34	5442
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	235	9156	26	2980
290030	Grinding machines, internal cylindrical, non-NC	116	4483	4	721
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	531	17710	53	1421
310080	Sharpening machines (tool & cutter grinding), NC	103	4314	3	158
390050	Sharpening machines (tool & cutter grinding), non-NC	387	5641	42	1748
400060	Honing or lapping machines, NC	23	2568	5	866
400080	Honing or lapping machines, non-NC	136	9208	27	2587
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	70	3772	12	157
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	814	21620	53	1277
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	8	46	0	0
200010	Shaping or slotting machines, NC	3	301	0	0
200090	Shaping or slotting machines, non-NC	37	3137	1	5
300060	Broaching machines, NC	5	2814	0	0
300080	Broaching machines, non-NC	11	3826	0	0
401020	Gear cutting for bevel gears	1	518	0	0
401030	Gear hobbers	116	15197	10	1125
401040	Gear shapers	33	3836	3	419
401060	Gear cutting machines, n.e.c.	115	2234	1	2
405050	Gear grinding or finishing for bevel gears	1	49	0	0
405070	Gear grinding or finishing machines, n.e.c.	33	14102	5	2180
500050	Sawing or cutting-off machines, NC	69	9929	3	20
500090	Sawing or cutting-off machines, non-NC	994	22866	124	4929
9000000001	Metal cutting machine tools, n.e.c.	206	9310	28	649
9800000001	Used or rebuilt machine tools	1625	30028	178	2370
9900000001	Machine tools valued at less than $3,025	558864	56485	72490	6827
	Cutting Total			74553	130376
	Y-T-D Cutting Total	577934	1107885		
	NC Y-T-D Cutting Total	6037	744104		

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - August 91

	Belgium		Brazil		Canada		France		Germany **	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	1	177
8457100015	0	0	0	0	0	0	2	135	1	208
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	2	241	1	3513
200010	0	0	0	0	0	0	2	760	0	0
200090	0	0	0	0	0	0	0	0	1	291
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	2	1382
8458110010	0	0	0	0	0	0	0	0	3	791
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	3	309	0	0
110090	0	0	0	0	0	0	0	0	2	497
190030	0	0	58	438	0	0	1	52	0	0
190050	0	0	0	0	0	0	0	0	1	70
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	1	743	0	0
915050	0	0	0	0	0	0	0	0	1	66
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	35	254	0	0	0	0	1	7
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	9	95	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	1	22	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	1	79
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	3	46	36	555	1	162
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	1	13
610080	0	0	0	0	0	0	0	0	4	485
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	1	8	0	0	1	127
700020	0	0	0	0	0	0	0	0	1	46
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	4	1004
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	1	21	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	9	295
290010	0	0	0	0	6	44	0	0	1	272
290030	0	0	0	0	0	0	0	0	1	158
290050	0	0	0	0	0	0	0	0	28	282
310080	0	0	0	0	0	0	1	2	2	156
390050	0	0	0	0	8	36	0	0	2	45
400060	0	0	0	0	0	0	0	0	3	572
400080	0	0	0	0	3	10	0	0	16	2454
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	4	123	0	0	7	110
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	6	219
401040	0	0	0	0	0	0	0	0	3	419
401060	0	0	0	0	0	0	0	0	1	2
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	2	677
500050	0	0	0	0	1	4	0	0	0	0
500090	0	0	0	0	25	289	6	91	37	3761
9000000001	0	0	0	0	2	7	2	10	16	561
9800000001	0	0	0	0	42	29	0	0	9	151
9900000001	0	0	1	3	262	46	616	230	208	296
Month Tot	0	0	105	832	357	642	672	3128	378	19346
Y-T-D Tot	70	1685	539	6247	2116	12095	2016	15184	5715	268788
NC YTD Tot	4	261	13	1501	29	2585	47	8436	443	183654

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - August 91

	Italy		Japan		Korea		Singapore		Spain	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	32	2850	0	0	0	0	0	0
301050	0	0	8	412	0	0	0	0	0	0
301070	0	0	2	44	0	0	0	0	0	0
8457100015	0	0	97	9266	0	0	15	673	0	0
100025	0	0	4	577	0	0	0	0	0	0
100035	0	0	39	8248	0	0	0	0	0	0
100045	5	3196	2	313	0	0	0	0	0	0
200010	0	0	0	0	1	121	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	1	518	5	10122	0	0	0	0	0	0
300090	1	477	0	0	0	0	0	0	0	0
8458110010	0	0	20	3383	0	0	0	0	0	0
110030	0	0	109	8589	4	249	0	0	0	0
110050	0	0	44	6240	6	447	0	0	1	108
110090	1	285	5	1125	0	0	0	0	0	0
190030	0	0	0	0	8	68	18	231	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	1	25	1	7	0	0	0	0	0	0
911060	0	0	5	1360	0	0	0	0	0	0
911080	3	1141	3	611	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	1	677	3	142	0	0	0	0	0	0
995090	0	0	0	0	10	647	0	0	0	0
8459100000	1	187	2	116	0	0	0	0	0	0
210080	0	0	35	1673	0	0	0	0	0	0
290040	0	0	5	248	0	0	0	0	0	0
290050	0	0	5	142	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	25	112
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	1	24	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	2	38	0	0	0	0	137	1096
610080	0	0	4	680	0	0	1	35	0	0
690050	1	64	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	28	1580	0	0	0	0	0	0
700080	2	142	5	22	0	0	0	0	0	0
8460110080	0	0	8	1908	0	0	0	0	0	0
190010	0	0	2	148	0	0	7	65	0	0
190050	0	0	0	0	0	0	0	0	2	316
210080	0	0	23	4702	0	0	0	0	0	0
290010	0	0	7	1983	0	0	0	0	0	0
290030	0	0	1	117	0	0	0	0	0	0
290050	1	39	7	287	0	0	0	0	1	120
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	16	1322	0	0	0	0	0	0
400060	0	0	2	294	0	0	0	0	0	0
400080	0	0	1	49	0	0	0	0	0	0
900060	0	0	10	136	0	0	0	0	0	0
900080	1	35	21	873	0	0	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	4	906	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	1	307	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	20	497	0	0	0	0	0	0
9000000001	0	0	1	27	0	0	0	0	0	0
9800000001	1	46	31	861	0	0	0	0	5	27
9900000001	1952	498	4149	697	2215	202	48	8	0	0
Month Tot	1973	7355	4769	72903	2244	1735	89	1012	171	1779
Y-T-D Tot	25168	33676	40814	495616	15718	12891	722	7633	1460	13933
NC YTD Tot	60	15281	3604	421175	105	7278	87	4099	150	1209

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - August 91

	Sweden		Switzerland		Taiwan		U.K.		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	4	538	2	15	0	0	21	932
301050	0	0	4	274	0	0	0	0	0	0
301070	0	0	0	0	13	65	0	0	2	13
8457100015	0	0	0	0	3	144	2	135	8	290
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	1	708	0	0
100045	0	0	0	0	0	0	6	465	16	436
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	3	221	9	465	14	734	3	72
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	31	266	3	53	80	619
190050	0	0	0	0	26	198	0	0	0	0
190070	0	0	1	170	0	0	0	0	0	0
190090	0	0	0	0	3	26	5	99	2	12
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	3	19	4	58	12	68
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	6	45
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	2	933	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	1	4
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	2	318	10	203	1	113	0	0
590030	0	0	0	0	69	301	2	140	39	204
610080	0	0	0	0	12	73	1	699	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	1	19	3	27
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	6	163	1	8	0	0	1	29
8460110080	0	0	0	0	0	0	0	0	0	0
190010	1	8	0	0	0	0	0	0	6	70
190050	0	0	0	0	74	546	3	44	19	109
210080	0	0	2	445	0	0	0	0	0	0
290010	0	0	4	576	0	0	0	0	8	104
290030	0	0	2	446	0	0	0	0	0	0
290050	0	0	3	532	4	66	3	31	6	63
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	3	86	0	0	11	106	2	153
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	7	73	0	0
900060	0	0	0	0	0	0	0	0	2	21
900080	1	12	1	8	0	0	4	34	14	83
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	1	5
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	2	1196	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	2	17
500090	0	0	1	29	26	187	8	30	1	46
9000000001	0	0	0	0	0	0	0	0	7	44
9800000001	11	64	9	65	4	72	43	738	23	316
9900000001	0	0	11	20	46394	3625	46	60	16588	1142
Month Tot	13	84	60	6020	46684	6279	165	4339	16873	4923
Y-T-D Tot	1899	13041	881	54053	388273	73441	1958	54406	90585	45196
NC YTD Tot	12	6362	185	25381	575	20396	264	31801	459	14686

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 91

RELEASED: October 30, 1991

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	179	22342	16	2106
8462100030	Headers and upsetters, including cold headers	58	12769	5	2203
100050	Forging or die stamping machines, and hammers, n.e.c.	486	28072	82	4793
210080	Bending, folding, straight. or flat. mach., incl presses, NC	344	25532	29	1316
290030	Press brakes, non-NC	149	5271	17	614
290040	Bending rolls, non-NC	47	1249	11	186
290050	Bending, folding, straight., or flat., n.e.c., non-NC	641	20488	74	2270
310080	Shearing machines, NC	10	1510	0	0
390050	Shearing machines, non-NC	227	6791	20	532
410080	Punching or notching mach., incl. comb. punch & shear, NC	142	22277	16	3466
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	309	6711	48	606
910060	Hydraulic presses, NC	9	5251	1	169
910090	Hydraulic presses, non-NC	1116	14027	256	595
990030	Presses, n.e.c., NC	3	1451	0	0
990035	Mechanical transfer presses, non-NC	9	61566	1	3314
990045	Mechanical presses, n.e.c., non-NC	72	14307	13	260
990060	Presses, n.e.c., non-NC	269	15923	36	1755
8463100080	Draw benches for bars, tubes, profiles, wire or the like	109	9039	1	275
200080	Thread rolling machines	48	1577	6	278
300080	Machines for working wire	697	39101	44	3995
900080	Metal forming machine tools, n.e.c.	680	21436	64	2857
9800000002	Used or rebuilt machine tools	2330	19587	110	1852
9900000002	Machine tools valued at less than $3,025	10192	4012	1540	822
	Forming Total			2390	34262
	Y-T-D Forming Total	18126	360287		
	NC Y-T-D Forming Total	508	56020		
	Cutting and Forming Totals:				
	Monthly Total			76943	164638
	Y-T-D Total	596060	1468172		
	NC Y-T-D Total	6545	800124		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
1000000000	Machine tool parts and accessories	0	379829	0	42891
2000000000	Parts for working rubber or plastics - heading 8477	0	221601	0	23389
2710003070	Quenching or cutting oils	0	206	0	50
8428900010	Industrial robots for lifting, handling, loading or unload	1099	23070	74	3704
8431390080	Parts industrial robots, handling and loading - heading 8428	0	61875	0	7795
8456101010	Laser, light or photon beam for working metal, NC	95	22425	12	1939
101020	Laser, light or photon beam for working metal, non-NC	60	7652	8	980
105000	Laser, light or photon beam for other materials	54	6674	11	1073
201010	Ultrasonic processes for working metal, NC	0	0	0	0
201050	Ultrasonic processes for working metal, non-NC	33	120	1	6
205000	Ultrasonic processes for working other materials	36	221	8	61
8477103000	Injection molding mach., for manufacturing shoes	61	1088	55	211
106010	Injection molding mach., for rubber or oth. thermosetting	573	64681	55	7095
106050	Injection molding mach., for thermoplastics	1496	144038	157	12643
200005	Extruders; rubber or other thermosetting mat., single screw	27	4281	0	0
200015	Extruders; rubber or thermosetting, other incl. multi. screw	125	13649	11	508
200035	Extruders; thermoplastics, single screw, less than 6.4cm	60	1955	2	51
200045	Extruders; thermoplastics, single screw, 6.4cm or greater	63	7578	3	972
200055	Extruders; thermoplastics, mutli. screw, less than 6.4cm	41	4317	6	429
200065	Extruders; thermoplastics, multi. screw, 6.4cm or larger	90	11695	2	109
300000	Blow molding machines	155	39801	38	9830
400000	Vacuum-molding and other thermoforming machines	252	14936	21	2696
510010	Machines for molding or retreading pneumatic tires	267	17146	19	962
510090	Machines for molding or otherwise forming inner tubes	50	3087	3	91
590000	Machines for molding or otherwise forming n.e.c.	417	23206	28	1964
800000	Machines for working rubber or plastics n.e.c.	1466	111093	193	13733
8479899040	Industrial robots, n.e.c.	2668	100457	359	10427
908040	Industrial robot parts	0	21925	0	2017
8537100030	Numerical controls for controlling machine tools	5946	21514	490	1914
9024100000	Machines and appliances for testing metals	0	7686	0	1017
9031100000	Machines for balancing mechanical parts	0	5568	0	1207
300000	Profile projectors	0	4071	0	299
9032810020	Industrial process control instr., hydraulic	89827	2227	4824	168
810060	Industrial process control instr., pneumatic	114141	3569	12858	436

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 91

Metal Forming

	Belgium		Brazil		Canada		France		Germany **	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	3	509	0	0	0	0
8462100030	1	1223	0	0	0	0	0	0	1	217
100050	0	0	0	0	1	5	0	0	50	2404
210080	0	0	0	0	0	0	0	0	1	212
290030	4	268	0	0	9	304	0	0	0	0
290040	0	0	0	0	3	106	0	0	0	0
290050	0	0	0	0	31	491	0	0	2	842
310080	0	0	0	0	0	0	0	0	0	0
390050	3	44	0	0	4	61	0	0	1	159
410080	0	0	0	0	0	0	0	0	7	1809
490050	0	0	0	0	0	0	1	6	21	268
910060	0	0	0	0	1	169	0	0	0	0
910090	0	0	0	0	6	349	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	1	85	0	0	0	0	0	0	0	0
990060	0	0	0	0	15	795	4	22	1	415
8463100080	0	0	0	0	0	0	0	0	1	275
200080	0	0	0	0	0	0	0	0	0	0
300080	3	162	0	0	1	191	0	0	12	859
900080	0	0	0	0	2	12	13	59	6	1254
9800000002	0	0	0	0	37	325	6	3	8	969
9900000002	0	0	0	0	27	33	0	0	0	0
Month Tot	12	1782	0	0	140	3350	24	91	111	9684
Y-T-D Tot	141	7082	26	19741	1535	30651	171	1345	1099	64117
NC YTD Tot	1	561	0	0	24	3268	9	72	76	13700
C&F Month	12	1782	105	832	497	3992	696	3219	489	29030
C&F Y-T-D	211	8766	565	25988	3651	42746	2187	16529	6814	332905
C&F NC YTD	5	822	13	1501	53	5853	56	8509	519	197354

Other Manufacturing Technology

1000000000	0	114	0	144	0	9011	0	680	0	7308
2000000000	0	75	0	12	0	3496	0	881	0	7386
2710003070	0	0	0	0	0	5	0	0	0	31
8428900010	0	0	0	0	6	120	2	132	1	9
8431390080	0	4	0	10	0	2084	0	30	0	831
8456101010	0	0	0	0	0	0	0	0	9	1127
101020	0	0	0	0	0	0	0	0	7	864
105000	0	0	0	0	0	0	0	0	2	112
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	6	43
8477103000	0	0	0	0	0	0	0	0	0	0
106010	0	0	0	0	0	0	5	685	6	377
106050	0	0	0	0	17	1284	0	0	27	3466
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	0	0	2	137	3	127
200035	0	0	0	0	0	0	0	0	0	0
200045	0	0	0	0	0	0	0	0	1	197
200055	0	0	0	0	0	0	0	0	2	108
200065	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	0	3	151	2	2123	2	1151
400000	0	0	0	0	0	0	0	0	4	374
510010	0	0	0	0	5	542	0	0	1	36
510090	0	0	0	0	0	0	0	0	1	3
590000	0	0	0	0	8	138	1	124	5	38
800000	0	0	0	0	10	260	0	0	61	2840
8479899040	0	0	0	0	2	310	0	0	4	99
908040	0	0	0	0	0	106	0	3	0	795
8537100030	0	0	0	0	0	0	0	0	10	4
9024100000	0	0	0	0	0	81	0	399	0	10
9031100000	0	0	0	0	0	7	0	0	0	12
300000	0	0	0	0	0	0	0	0	0	54
9032810020	0	0	0	0	0	0	0	0	78	4
810060	0	0	0	0	8	4	0	0	19	3

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
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Metal Forming

	Italy		Japan		Korea		Singapore		Spain	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	537	9	1017	0	0	0	0	0	0
8462100030	2	619	1	144	0	0	0	0	0	0
100050	4	94	3	653	0	0	0	0	1	2
210080	0	0	20	911	0	0	0	0	0	0
290030	0	0	2	34	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	1	10	4	58	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	1	15	8	221	0	0	0	0	0	0
410080	0	0	5	837	0	0	0	0	0	0
490050	3	22	0	0	0	0	0	0	18	203
910060	0	0	0	0	0	0	0	0	0	0
910090	3	51	11	83	0	0	0	0	52	40
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	1	3314	0	0	0	0	0	0
990045	0	0	3	146	0	0	0	0	0	0
990060	0	0	9	294	0	0	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	1	110	0	0	0	0	5	168
300080	4	61	15	736	0	0	0	0	0	0
900080	2	57	8	635	0	0	0	0	1	30
9800000002	1	3	1	75	0	0	0	0	1	38
9900000002	206	96	242	342	10	3	0	0	162	63
Month Tot	229	1565	343	9611	10	3	0	0	240	544
Y-T-D Tot	1284	23111	3013	152960	24	516	1	300	563	2605
NC YTD Tot	24	1484	308	25916	0	0	0	0	0	0
C&F Month	2202	8920	5112	82514	2254	1739	89	1012	411	2322
C&F Y-T-D	26452	56787	43827	648577	15742	13407	723	7933	2023	16538
C&F NC YTD	84	16764	3912	447091	105	7278	87	4099	150	1209

Other Manufacturing Technology

1000000000	0	854	0	13825	0	199	0	57	0	434
2000000000	0	1774	0	5752	0	109	0	42	0	23
2710003070	0	0	0	14	0	0	0	0	0	0
8428900010	8	1142	38	1746	0	0	0	0	1	67
8431390080	0	134	0	1654	0	34	0	4	0	4
8456101010	0	0	3	812	0	0	0	0	0	0
101020	0	0	1	116	0	0	0	0	0	0
105000	0	0	1	115	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	1	6	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	55	211	0	0	0	0	0	0	0	0
106010	3	463	31	4712	0	0	0	0	0	0
106050	22	1264	55	4719	2	84	0	0	0	0
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	1	78	0	0	0	0	0	0
200035	0	0	0	0	0	0	0	0	0	0
200045	1	236	1	539	0	0	0	0	0	0
200055	0	0	4	321	0	0	0	0	0	0
200065	0	0	0	0	0	0	0	0	0	0
300000	1	202	18	6001	2	97	0	0	0	0
400000	5	140	1	2151	0	0	0	0	0	0
510010	10	366	3	17	0	0	0	0	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	1	5	4	1548	0	0	0	0	0	0
800000	15	876	34	2233	1	24	0	0	8	73
8479899040	1	21	282	9553	1	8	1	9	0	0
908040	0	4	0	887	0	3	0	0	0	0
8537100030	3	42	470	1783	0	0	0	0	0	0
9024100000	0	132	0	171	0	0	0	0	0	0
9031100000	0	0	0	926	0	25	0	2	0	0
300000	0	0	0	33	0	0	0	0	0	0
9032810020	0	0	0	0	0	0	0	0	0	0
810060	627	74	647	144	0	0	0	0	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
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Metal Forming

	Sweden		Switzerland		Taiwan		U.K.		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	2	42	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	1	98	4	1071	4	367	9	83	5	17
210080	1	33	1	91	0	0	6	69	0	0
290030	0	0	0	0	2	8	0	0	0	0
290040	0	0	0	0	5	60	3	20	0	0
290050	1	23	10	194	2	56	4	18	19	579
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	2	16	1	16
410080	0	0	0	0	0	0	0	0	4	820
490050	2	89	0	0	3	18	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	10	18	0	0	0	0	174	53
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	9	28	0	0
990060	1	17	0	0	1	36	1	30	4	145
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	2	36	4	382	3	1566
900080	0	0	24	584	1	6	3	94	4	126
9800000002	1	5	1	64	22	43	10	202	22	125
9900000002	0	0	5	12	586	153	27	45	275	75
Month Tot	7	264	57	2075	628	783	78	988	511	3522
Y-T-D Tot	149	8105	705	14543	5178	4953	1725	12441	2512	17816
NC YTD Tot	11	1805	9	830	3	31	9	1548	34	6804
C&F Month	20	348	117	8095	47312	7063	243	5327	17384	8445
C&F Y-T-D	2048	21146	1586	68596	393451	78394	3683	66847	93097	63012
C&F NC YTD	23	8166	194	26212	578	20427	273	33349	493	21490

Other Manufacturing Technology

1000000000	0	439	0	3137	0	2216	0	2684	0	2790
2000000000	0	13	0	439	0	407	0	655	0	2325
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	6	277	0	0	0	0	4	33	8	178
8431390080	0	567	0	326	0	117	0	943	0	1051
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	8	846	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	2	18
8477103000	0	0	0	0	0	0	0	0	0	0
106010	0	0	4	687	4	130	1	6	1	36
106050	0	0	4	597	15	349	1	61	14	818
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	1	61	0	0	4	106
200035	0	0	0	0	0	0	2	51	0	0
200045	0	0	0	0	0	0	0	0	0	0
200055	0	0	0	0	0	0	0	0	0	0
200065	0	0	0	0	0	0	1	86	1	23
300000	0	0	0	0	2	40	0	0	8	66
400000	0	0	0	0	1	8	10	23	0	0
510010	0	0	0	0	0	0	0	0	0	0
510090	0	0	0	0	0	0	1	87	1	2
590000	1	2	0	0	3	42	1	56	4	10
800000	4	38	6	768	9	103	26	5890	19	629
8479899040	4	102	0	0	26	94	2	26	36	206
908040	0	52	0	7	0	6	0	72	0	83
8537100030	0	0	3	53	0	0	4	31	0	0
9024100000	0	0	0	32	0	5	0	169	0	19
9031100000	0	0	0	0	0	0	0	30	0	207
300000	0	0	0	6	0	0	0	207	0	0
9032810020	0	0	5	2	0	0	65	3	4676	158
810060	525	114	0	0	5320	20	111	4	5601	73

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
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	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	10	112	4	1368	14	1480
Bulgaria	0	0	0	0	0	0
Czechoslovakia	12	185	0	0	12	185
Denmark	42	246	4	14	46	260
Finland	7	159	5	880	12	1039
Hungary	0	0	1	200	1	200
Ireland	0	0	0	0	0	0
Luxembourg	0	0	0	0	0	0
Netherlands	56	187	27	552	83	739
Norway	0	0	0	0	0	0
Poland	15	246	0	0	15	246
Portugal	0	0	11	146	11	146
Romania	0	0	0	0	0	0
USSR	0	0	0	0	0	0
Yugoslavia	37	232	0	0	37	232
Oth Europe	0	0	1	122	1	122
TOTAL	3611	43418	811	20274	4422	63691
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	194	72	11	17	205	89
Oth N & C Am.	0	0	0	0	0	0
TOTAL	551	714	151	3367	702	4081
SOUTH AMERICA						
Argentina	0	0	170	5	170	5
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	105	832	170	5	275	837
OCEANIA						
Australia	28	271	7	16	35	287
New Zealand	0	0	0	0	0	0
Oth Oceania	0	0	0	0	0	0
TOTAL	28	271	7	16	35	287

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
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	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	16418	1579	266	192	16684	1771
Hong Kong	0	0	4	11	4	11
India	4	42	0	0	4	42
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	14	281	0	0	14	281
Malaysia	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	35	1293	0	0	35	1293
Oth Asia	0	0	0	0	0	0
TOTAL	70257	85124	1251	10599	71508	95723
AFRICA						
Ghana	1	19	0	0	1	19
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	1	19	0	0	1	19

Note: Region totals include top countries detailed by product as well as countries listed above.
** West and East Germany are combined.
Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.